

# NPR-4SG

## 4" Pearl 120V LED Square Adjustable Gimbal Retrofit

Source: 10W LED  
1050lm

Type

Project

Catalog No.

Notes

### PRODUCT DESCRIPTION

Pearl LED Retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The 4" retrofit luminaires deliver over 1050 lumens with die-cast adjustable gimbal to aim the light source in desired direction.

### FEATURES

- Medium base socket adapter included
- Retrofit existing 4" recessed housings
- Comfort Dim (warm dimming) is available in 600lm only
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- Three field changeable optics included
- Integral dimmable driver
- 5-year limited warranty
- cULus classified for damp locations

### SPECIFICATION

**Construction:** Trims are constructed of heat-dissipating die-cast aluminum. A threaded aluminum LED heat sink integrates directly with the trim for optimal heat transfer, while a heat-resistant polycarbonate blend plate enhances overall temperature control and performance.

**Mounting:** Luminaire includes friction blades to mount securely to housing.

### OPTICS

Three field changeable optics (spot, narrow flood and flood - installed) are included with each LED module. Premium 22° and 26° TIR optics are also available.

### ELECTRICAL

**Input Voltage:** 120V

**Lumens / Wattage:** 1050lm / 10W (600lm w/ Comfort Dim)

**Color Temperature:** 2700K, 3000K, 3500K, 4000K

**Color Rendering Index:** 90+CRI

**Beam Spread:** 24° Spot, 33° Narrow Flood, 55° Flood

**Operating Temperature:** 0°C to 25°C

**Lifetime:** 50,000 hours @ L70

**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm only.

**Dimming:** Triac (leading edge) or ELV (trailing edge)

[Click Here](#) or check complete dimmer list at

[www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### COMPATIBLE HOUSINGS

Pearl retrofits are compatible with most 4" IC and Non-IC housings by Nora and others.

#### Fire Box

- [NFJB-R4\\*](#) ICAT Junction Box
- [NFBIC-4LMRATA\\*](#) ICAT Dedicated LED
- [NFBIC-427LMRATA\\*](#) Shallow ICAT Dedicated LED
- [NFBIC-4INCATA](#) ICAT Line Voltage

#### New Construction

- [NSIC-4LMRAT\\*](#) Max. Adjustability ICAT Dedicated LED
- [NHIC-4LMRAT\\*](#) ICAT Dedicated LED
- [NHIC-4LMRAT/277\\*](#) ICAT Dedicated LED, 277V (includes step-down transformer)
- [NHICCP-4LMRAT\\*](#) CCEA Dedicated LED
- [NHIC-427LMRAT\\*](#) Shallow ICAT Dedicated LED
- [NSIC-401QAT](#) ICAT Line Voltage
- [NS-401QAT](#) AT Line Voltage
- [NHIC-4G24AT](#) ICAT GU24

#### Remodel

- [NHRIC-4LMRAT\\*](#) ICAT Dedicated LED
- [NHRIC-427LMRAT\\*](#) Shallow ICAT Dedicated LED
- [NSRIC-404QAT](#) ICAT Line Voltage
- [NSR-404QAT](#) AT Line Voltage

\* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

**Retrofit:** A medium base screw-socket adapter is included for retrofitting into existing housings. Medium base sockets may require removal, dependent on trim and housing height. A GU24 socket adapter is also available, ordered separately (NRA-212SM).

**Accessories:** Luminaires can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page.

### LABELS AND LISTINGS

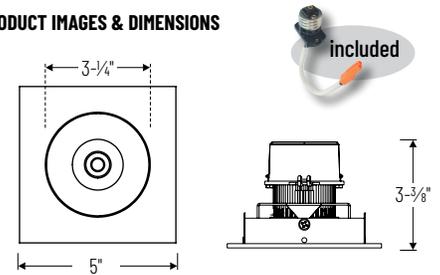
- cULus classified for Damp Locations
- RoHS compliant
- [5-Year Limited Warranty](#)
- Certified to the high efficacy requirements of California Title 24 JA8-2025
- Patent Pending



Performance Data			
Part Number	Lumens	CCT	Optic
<b>NPR-4SG40XMPW</b>	1054lm	4000K	Spot
<b>NPR-4SG40XMPW</b>	1059lm	4000K	Narrow
<b>NPR-4SG40XMPW</b>	1055lm	4000K	Flood

Delivered lumens will vary depending on CCT, optic and finish

### PRODUCT IMAGES & DIMENSIONS



#### NPR-4SG

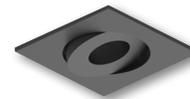
Square Adjustable Gimbal

Adjustability:

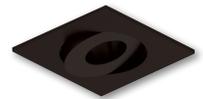
Max. Adjustability Housing: 35°

Standard Housings / Junction Box: 25°

Shallow Housings: 10°



**BB**  
Black



**BZ**  
Bronze



**MPW**  
Bright White



**NN**  
Natural Metal



**WW**  
Warm White

## 4" Pearl 120V LED Square Adjustable Gimbal Retrofit

Color Temperature	Finish
<b>NPR-4SG27X</b> = 2700K	<b>BB</b> = Black
<b>NPR-4SG30X</b> = 3000K	<b>BZ</b> = Bronze
<b>NPR-4SG35X</b> = 3500K	<b>MPW</b> = Bright White
<b>NPR-4SG40X</b> = 4000K	<b>NN</b> = Natural Metal
<b>NPR-4SGCDX</b> = Comfort Dim	<b>WW</b> = Warm White

Example: **NPR-4SG40XMPW** = 4" Pearl 120V LED Square Adjustable Gimbal Retrofit, 4000K, Bright White finish

# ACCESSORIES

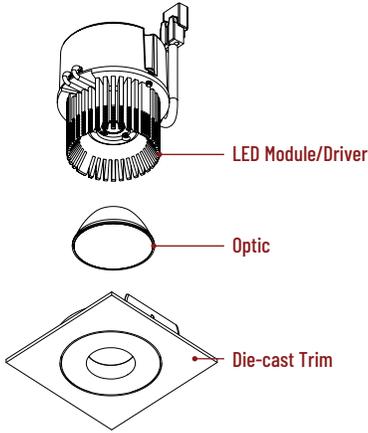
## 4" Pearl 120V LED Square Adjustable Gimbal Retrofit

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### FIELD CHANGEABLE OPTICS

Pearl luminaires include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast trim. Replacement optics include an optional frosted lens.

**Note:** Premium TIR optics are not compatible with Comfort Dim LED modules.



Frosted Optics

**NIO-REFL38FR** 60° Optic  
**NIO-REFL60FR** 73° Optic

Replaces optics that are included with each LED module.



Premium TIR Optics

**NIO-REFLTIR15** 22° Optic  
**NIO-REFLTIR25** 26° Optic

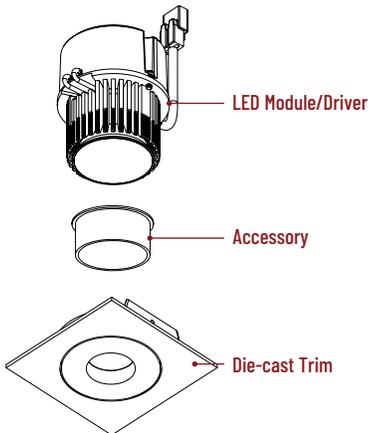
Premium TIR (total internal reflection) optics create optimal spot and narrow flood beam spread.

**Not compatible with Comfort Dim (CDX) LED module**

### ACCESSORIES

Pearl accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast trim.

Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.



Translucent Decorative Collar

**NIO-AS14(color)** 5/8" length  
**NIO-AS19(color)** 3/4" length  
**NIO-AS26(color)** 1" length  
**Color:**  
**AM** (amber), **BLU** (blue), **FR** (frosted), **R** (red)

Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



Opaque Collar Snoot

**NIO-AS14WH** 5/8" length / warm white finish  
**NIO-AS19MPW** 3/4" length / bright white finish  
**NIO-AS19WH** 3/4" length / warm white finish  
**NIO-AS26WH** 1" length / warm white finish

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

**NIO-HC** Black

Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

Hex cell louver is not compatible with TIR optics.

# PHOTOMETRICS

## 4" Pearl 120V LED Square Adjustable Gimbal Retrofit

Type

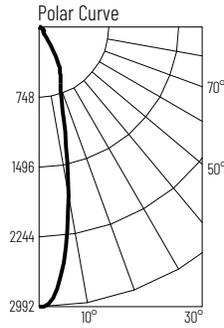
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### Test Information

Test Number: NTR2859R1  
 Part Number: NPR-4SG40XMPW  
 Beam Spread: 24° Spot  
 Lumens: 1054lm  
 Wattage: 9.87W  
 Efficacy: 107lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.42  
 Spacing Criteria (90°-270°): 0.42



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	187fc	1'-8"
6'	83.1fc	2'-6"
8'	46.8fc	3'-5"
10'	29.9fc	4'-2"
12'	20.8fc	5'

### Zonal Lumen Summary

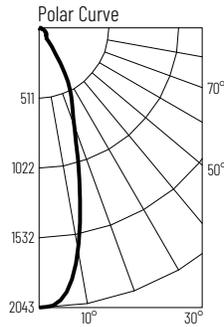
Zone	Lumens	% Luminaire
0-30	768	72.9
0-40	871	82.7
0-60	978	92.8
0-90	1054	100
90-180	0	0
0-180	1054	100

### Candela Table

Vertical Angles	Candela
0	2992
5	2679
15	1030
25	540
35	138
45	73

### Test Information

Test Number: NTR2855R1  
 Part Number: NPR-4SG40XMPW  
 Beam Spread: 33° Narrow Flood  
 Lumens: 1059lm  
 Wattage: 9.87W  
 Efficacy: 107lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.54  
 Spacing Criteria (90°-270°): 0.54



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	120fc	2'-4"
6'	56.8fc	3'-6"
8'	31.9fc	4'-8"
10'	20.4fc	5'-10"
12'	14.2fc	7'

### Zonal Lumen Summary

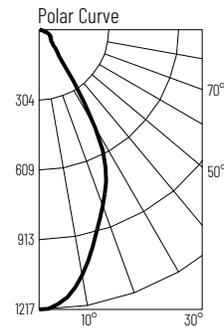
Zone	Lumens	% Luminaire
0-30	752	71
0-40	855	80.7
0-60	976	92.2
0-90	1059	100
90-180	0	0
0-180	1059	100

### Candela Table

Vertical Angles	Candela
0	2043
5	1979
15	1140
25	567
35	150
45	77

### Test Information

Test Number: NTR2851R1  
 Part Number: NPR-4SG40XMPW  
 Beam Spread: 55° Flood  
 Lumens: 1055lm  
 Wattage: 9.87W  
 Efficacy: 107lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.82  
 Spacing Criteria (90°-270°): 0.82



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	76.1fc	4'-2"
6'	33.8fc	6'-4"
8'	19fc	8'-4"
10'	12.2fc	10'-5"
12'	8.5fc	12'-6"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	684	64.8
0-40	841	79.7
0-60	966	91.6
0-90	1055	100
90-180	0	0
0-180	1055	100

### Candela Table

Vertical Angles	Candela
0	1217
5	1184
15	941
25	693
35	227
45	86

### Lumen Output Multipliers

Color Temperature: 2700K (0.89), 3000K (0.94), 3500K (0.97), 4000K (1.00)

### Finish Multipliers

Finish: Black (0.84), Bronze (0.85), Natural Metal (0.93), Bright White (1.00), Warm White (1.03)